```
#include <stdio.h>
struct p{
       int id1;
       char name;
       int id2;
       char c;
       float percentage;
};
struct pChange{
       int id1;
       int id2;
       float percentage;
       char name;
       char c;
};
struct q{
char first[10];
char middle_initial;
char last[10];
double salary;
int numinhousehold;
};
struct qChange
{
    int numinhousehold;
char first[10];
char last[10];
char middle_initial;
double salary;
};
struct r{
char b;
int a[2];
int i;
char c;
int *p;
};
struct rChange
    int a[2];
    int *p;
    int i;
    char c;
```

```
char b;
};
struct linked{
    int d;
    struct linked *next;
    struct linked *prev;
    char c;
};
struct linkedChange
    struct linked *next;
    struct linked *prev;
    int d;
    char c;
};
struct mat{
    int a[4][3];
    char b[10];
    double d;
    int c[3][3];
};
struct matChange
{
    double d;
    int c[3][3];
    int a[4][3];
    char b[10];
};
int main()
     printf("%d for struct p\n", sizeof(struct p));
     printf ("%d for Changed p\n\n", sizeof(struct pChange));
     printf("%d for struct q\n", sizeof(struct q));
     printf("%d for Changed q\n\n", sizeof(struct qChange));
    printf("%d for struct r\n", sizeof(struct r));
    printf("%d for changed r\n\n", sizeof(struct rChange));
    printf("%d for struct linked\n", sizeof(struct linked));
    printf("%d for Changed linked\n\n", sizeof(struct linkedChange));
    printf("%d for struct mat\n", sizeof(struct mat));
    printf("%d for Changed mat\n\n", sizeof(struct matChange));
 return 0;
}
//OUTPUT
```

lab\_04.c 2/13/17, 16:34

bertvm:~/cs261/lab4> ./a.out

20 for struct p
16 for Changed p

40 for struct q
40 for Changed q

32 for struct r
24 for changed r

32 for struct linked
24 for Changed linked

112 for struct mat
104 for Changed mat